# Muskrat Falls Project Oversight Committee May Reporting July 9, 2019 

## May 2019 Project Progress




## Project Progress

## Muskrat Falls Project Progress at May 2019

| May 2019 | Weight Factor \% | May 2019 Cumulative \% |  |  | April 2019 Variance |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Planned | Earned | Variance |  |
| Sub-Project | A | B | C | $D=C-B$ | E |
| Muskrat Falls Generation (MFGen) | 46.3\% | 97.5\% | 95.3\% | -2.2\% | -1.5\% |
| Labrador Island Transmission Link (LITL) | 43.9\% | 100.0\% | 99.92\% | -0.08\% | -0.1\% |
| Labrador Transmission Asset (LTA) | 9.8\% | 100.0\% | 99.99\% | -0.01\% | -0.03\% |
| Muskrat Falls Project - Overall | 100.0\% | 98.8\% | 97.8\% | -1.0\% | -0.8\% |
| *Adjusted for planned | d delay to rollway in | ation 98.4\% | 97.8\% | -0.6\% |  |

## Overall Progress Curve

Newoundland Labrador


## Earned Progress MF Generating Facility

## May 2019

Sub-Project
MFG Road/Camp/Constr. Power
MFG Reservoir Preparation
MFG Spillway \& Gates
MFG North Spur Stabilization
MFG North Dam
MFG Powerhouse \& Intake
MFG South Dam
MFG Misc:Eng/ 315kV/Site Rest./logistic
MFGen - Overall

May 2019 Cumulative \%



| $8.9 \%$ | $100.0 \%$ | $100.0 \%$ | $0.0 \%$ | $0.0 \%$ |
| :--- | :--- | :--- | :--- | :--- |
| $5.8 \%$ | $100.0 \%$ | $100.0 \%$ | $0.0 \%$ | $0.0 \%$ |


| $12.2 \%$ | $100.0 \%$ | $91.4 \%$ | $-8.6 \%$ | $-8.6 \%$ |
| ---: | ---: | ---: | ---: | ---: |
| $3.9 \%$ | $100.0 \%$ | $100.0 \%$ | $0.0 \%$ | $0.0 \%$ |
| $5.7 \%$ | $100.0 \%$ | $100.0 \%$ | $0.0 \%$ | $0.0 \%$ |
| $61.3 \%$ | $96.1 \%$ | $94.2 \%$ | $-1.9 \%$ | $0.8 \%$ |
| $1.1 \%$ | $100.0 \%$ | $100.0 \%$ | $0.0 \%$ | $0.0 \%$ |
| $1.1 \%$ | $90.3 \%$ | $91.8 \%$ | $1.5 \%$ | $-1.1 \%$ |
| $100.0 \%$ | $97.5 \%$ | $95.3 \%$ | $-2.2 \%$ | $-1.5 \%$ |
|  |  |  |  |  |

* MFGen - Overall adjusted for rollway installation schedule


## Progress Curve MF Generating Facility

MFG CONSTRUCTION/COMMISSIONING PROGRESS CURVE


## Earned Progress <br> Labrador Island Transmission Link

| May 2019 | Weight | May 2019 Cumulative \% |  |  | $\frac{\text { April } 2019}{\text { Variance }}$ |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Factor \% | Plan | Earned | Variance |  |
| Sub-Project | A | B | C | $D=C-B$ | E |
| LITL Muskrat Falls Converter | 6.1\% | 100.0\% | 99.5\% | -0.5\% | -0.8\% |
| LITL Soldiers Pond Converter | 5.5\% | 100.0\% | 99.30\% | -0.7\% | -0.7\% |
| LITL HVdc Transmission Line Seg 1/2 | 26.8\% | 100.0\% | 100.0\% | 0.0\% | 0.0\% |
| LITL HVdc Transmission Line Seg 3/4/5 | 34.2\% | 100.0\% | 100.0\% | 0.0\% | 0.0\% |
| LITL Electrode Sites | 0.8\% | 100.0\% | 100.0\% | 0.0\% | 0.0\% |
| LITL Transition Compounds | 1.7\% | 100.0\% | 100.0\% | 0.0\% | 0.0\% |
| LITL SOBI Cable Crossing | 17.7\% | 100.0\% | 100.0\% | 0.0\% | 0.0\% |
| LITL Soldiers Pond Switchyard | 2.7\% | 100.0\% | 100.0\% | 0.0\% | 0.0\% |
| LITL Soldiers Pond Sync. Condensors | 3.1\% | 100.0\% | 99.7\% | -0.3\% | -0.4\% |
| LITL Misc | 1.4\% | 100.0\% | 99.95\% | 0.0\% | -1.1\% |
| LITL- Overall | 100.0\% | 100.0\% | 99.92\% | -0.08\% | -0.11\% |

## Progress Curve

## Labrador Island Transmission Link



## Earned Progress Labrador Transmission Assets

| May 2019 | Weight | May 2019 Cumulative \% |  |  | April 2019 Variance |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Factor \% | Plan | Earned | Variance |  |
| Sub-Project | A | B | C | $D=C-B$ | E |
| LTA HVac Transmission Line Seg1/2-MF to CF | 62.8\% | 100.0\% | 100.0\% | 0.0\% | 0.0\% |
| LTA Churchill Falls Switchyard | 21.7\% | 100.0\% | 100.0\% | 0.0\% | 0.0\% |
| LTA Muskrat Falls Switchyard | 13.4\% | 100.0\% | 99.97\% | -0.03\% | 0.0\% |
| LTA Misc | 2.1\% | 100.0\% | 99.57\% | -0.43\% | -1.4\% |
| LTA - Overall | 100.0\% | 100.0\% | 99.99\% | -0.01\% | 0.0\% |

## Progress Curve Labrador Transmission Assets



## Project Costs

## Muskrat Falls Project Costs at May 2019 (\$000’s)

| Muskrat Falls Project: SubProject | Percentage of Total Budget | Project Budget at June 2017 (LTA and LITL Contingency amended in March 2018) | Planned Costs as of May 2019 | Incurred Costs as of May 2019 | Percentage of Budget Incurred | Variance Planned vs. Incurred Costs | Variance as \% of Planned Costs | Project Forecas Cos |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Muskrat Falls Generating Facility | 54.36\% | \$5,500,056 | \$5,152,024 | \$4,851,099 | 88.2\% | (\$300,925) | -5.8\% | \$5,500,056 |
| Labrador-Island Transmission Link | 36.71\% | \$3,713,716 | \$3,709,039 | \$3,525,038 | 94.9\% | (\$184,001) | -5.0\% | \$3,713,716 |
| Labrador Transmission Assets | 8.93\% | \$903,556 | \$903,556 | \$862,595 | 95.5\% | (\$40,961) | -4.5\% | \$903,556 |
| Total | 100.0\% | \$10,117,328 | \$9,764,619 | \$9,238,732 | 91.3\% | (\$525,887) | -5.4\% | \$10,117,328 |

Overall Final Forecast Cost unchanged from June 2017 AFE. Additional Risks (\$170-370 Million), Astaldi Claim (up to \$800 Million) not included.

## Contingency Budget at May 2019 (\$ 000’s)

|  |  | Project Budget June <br> 2017and amended <br> March 2018 | Project Forecast <br> Cost April 2019 | Project Forecast Cost <br> May 2019 Previous Period | Change from <br> Muskrance PFC |
| :---: | ---: | ---: | ---: | ---: | ---: |
| from Budget |  |  |  |  |  |

